

Amendments to the Claims

1. (Original) A solid oxide fuel cell provided with a power cell (1) formed by arranging a fuel electrode layer (4) on one surface of a solid electrolyte layer (3) and an air electrode layer (2) on the other surface thereof, wherein:

said solid electrolyte layer consists of a two layer structure comprising a first electrolyte layer (3a) made of a ceria based oxide material and a second electrolyte layer (3b) made of a lanthanum gallate based oxide material; and

said second electrolyte layer is formed on the side of said air electrode layer.

2. (Original) The solid oxide fuel cell according to claim 1, wherein said first electrolyte layer (3a) is formed thinner than said second electrolyte layer (3b).

3. (Original) A solid oxide fuel cell provided with a power cell (1) formed by arranging a fuel electrode layer (4) on one surface of a solid electrolyte layer (3) and an air electrode layer (2) on the other surface thereof, wherein:

the composition ratio of component materials in said fuel electrode layer is graded along the thickness thereof.

4. (Original) The solid oxide fuel cell according to claim 3, wherein said fuel electrode layer (4) has a layered structure comprising two or more layers, and the composition ratio of component materials in said fuel electrode layer is graded along the layering direction thereof by varying the composition ratio of component materials in the respective layers.

5. (Currently amended) The solid oxide fuel cell according to claim 3-~~or~~4, wherein the material composition for said fuel electrode layer (4) is a mixture of Ni and CeSmO₂, wherein the composition ratio of component materials is graded along the thickness thereof in such a way that the quantity of Ni is less than the quantity of CeSmO₂ near the

interface with said solid electrolyte layer (3), and the mixing ratio of Ni is gradually increased with an increasing distance away from the interface.

6. (New) The solid oxide fuel cell according to claim 4, wherein the material composition for said fuel electrode layer (4) is a mixture of Ni and CeSmO₂, wherein the composition ratio of component materials is graded along the thickness thereof in such a way that the quantity of Ni is less than the quantity of CeSmO₂ near the interface with said solid electrolyte layer (3), and the mixing ratio of Ni is gradually increased with an increasing distance away from the interface.